

# **6AS5**

## **BEAM PENTODE**

## **DESCRIPTION AND RATING**:

The 6AS5 is a miniature beam pentode designed primarily for use in the audio-frequency power output stage of automobile receivers. The tube is capable of delivering a relatively high power output at low plate and screen voltages.

### **GENERAL**

## **ELECTRICAL**

Cathode—Coated Unipotential	
Heater Voltage, AC or DC	Volts
Heater Current	Amperes
Direct Interelectrode Capacitances, approximate*	
Grid-Number 1 to Plate	$\mu\mu$ f
Input	μμf
Output	μμf

#### **MECHANICAL**

Mounting Position—Any Envelope—T-5½, Glass Base—E7-1, Miniature Button 7-Pin

### **MAXIMUM RATINGS**

#### **DESIGN-CENTER VALUES**

Parion California (Aloro	
Plate Voltage	Volts
Screen Voltage	Volts
Plate Dissipation	Watts
Screen Dissipation1.0	Watts
Heater-Cathode Voltage	
Heater Positive with Respect to Cathode	Volts
Heater Negative with Respect to Cathode	Volts
Grid-Number 1 Circuit Resistance	
With Fixed Bias	Megohms
With Cathode Bias	Megohms



Supersedes ET-T600A, dated 9-51

#### **BASING DIAGRAM**



## **TERMINAL CONNECTIONS**

Pin 1—Cathode and Beam
Plates

Pin 2—Grid Number 1

Pin 3—Heater

Pin 4—Heater

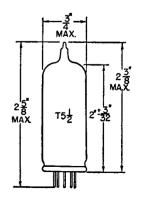
Pin 5—Grid Number 1

Pin 6—Grid Number 2

(Screen)

Pin 7-Plate

#### PHYSICAL DIMENSIONS



RETMA 5-3



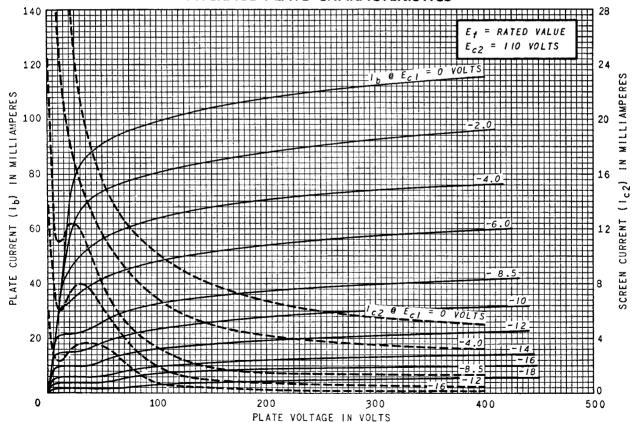
## CHARACTERISTICS AND TYPICAL OPERATION

## CLASS A1 AMPLIFIER

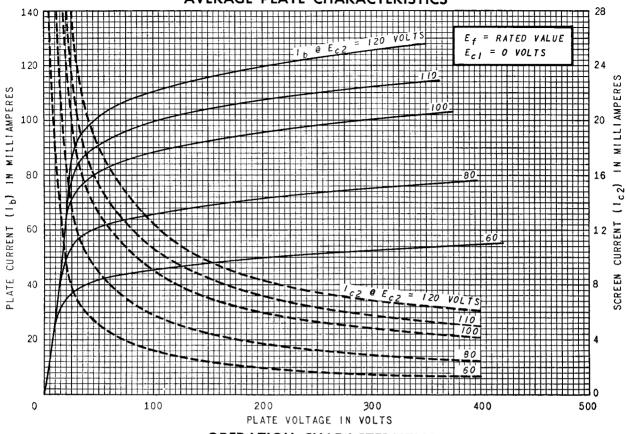
Plate Voltage	Volts
Screen Voltage	Volts
Grid-Number 1 Voltage	Volts
Peak AF Grid-Number 1 Voltage	Volts
Transconductance	
Zero-Signal Plate Current	Milliamperes
Maximum-Signal Plate Current	Milliamperes
Zero-Signal Screen Current	Milliamperes
Maximum-Signal Screen Current	Milliamperes
Load Resistance	Ohms
Total Harmonic Distortion, approximate	Percent
Maximum-Signal Power Output	Watts

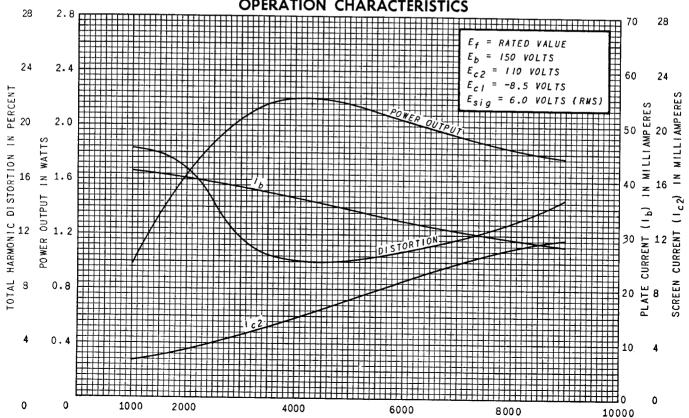
Without external shield.

# **AVERAGE PLATE CHARACTERISTICS**



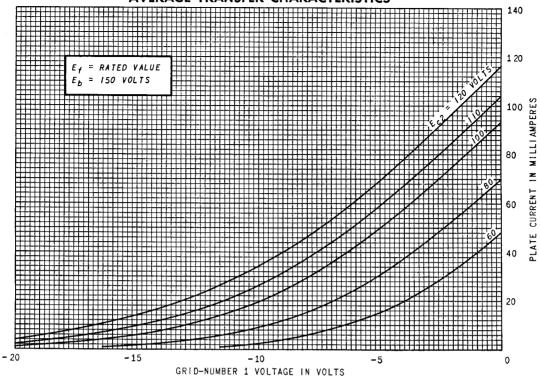




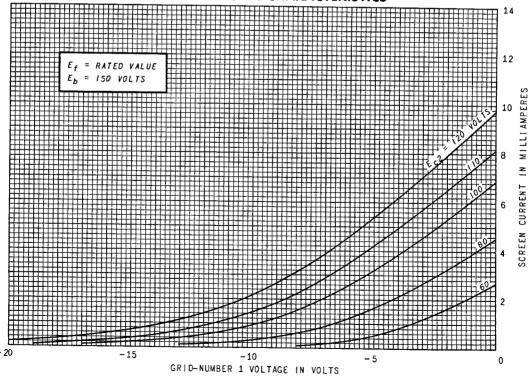


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### **AVERAGE TRANSFER CHARACTERISTICS**



## **AVERAGE TRANSFER CHARACTERISTICS**



# **ELECTRONIC COMPONENTS DIVISION**

